

CO Analyzer

707



The Value Leader™

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Specifications

Power Supply:	4 "AA" Alkaline Batteries
Sensor:	Long Life Electrochemical
Range:	0 to 10,000ppm
Warm up:	Approx 20 seconds
Response time:	90% of reading < 60 seconds
Duty Cycle:	30 minutes
Battery Life:	Approx. 30 hrs.
Size:	3.75" x 8.0" x 3.0" (95 x 203 x 76) mm
Weight:	1.1 lbs (500g)
Probe Length:	9" (230mm)
Tube Length:	5 feet (152.4cm)
Hot air probe:	700 degrees F @ 5 minutes

Product Features and Benefits

- Completely portable, hand-held instrument allows access to any location.
- Large, easy to read LCD
- Backlight to illuminate the LCD in dimly lit environments.
- Flue probe for CO measurement in stacks.
- 10 storage locations for saving data for future reference or printing (optional A740 IR printer required).
- Peak CO reading during measurement period.
- Built in CO alarm (resettable, factory set at 500ppm)
- Field calibration available.

Standard Accessories

Sensor:	A739
Instruction Manual:	707 Instruction Manual
Soft carrying case:	A909
Protective boot:	A765
Pump Protect Filter Assembly	A763
In-line Filter Assembly	A762
Flue Probe:	A729
Batteries	3 each 1.5 V "AA" alkaline

Optional Accessories

Calibration Kit	A733
Calibration Gas	A728
IR Printer	A740

General Description

The 707 is an advanced state-of-the-art carbon monoxide (CO) gas analyzer designed to provide part per million readings from 0-10,000 ppm. The 707 is capable of performing ambient as well as flue gas checks with its hot air probe and internal pump.

The 707 utilizes an advanced long life electrochemical sensor that can be field calibrated and has a low replacement cost.

Features include IR printer port to print hard copy of data, 10 storage locations, Flow block indication, peak reading for test period as well as date and time.

CAUTION: *The 707 is not designed as a personal monitor. There are no alarms. The display must be in view to determine gas concentration.*

Controls and Push Buttons



Turns the 707 On (hold button in for 2 seconds) and Off

**Scroll
Enter**

Toggles between CO reading and Peak Reading. Used to save, recall and print stored data.



Used for setting date, time and accessing data storage addresses



Used for setting date, time and accessing data storage addresses

Recall

Used to recall previously stored data in one of 10 data storage addresses

Store

Used to store data in one of 10 data storage addresses.



Used to select CO measurement or date/time in main display. Hold down for 2 seconds to activate LCD backlight.

Print

Sends the recalled stored data to the IR printer port.

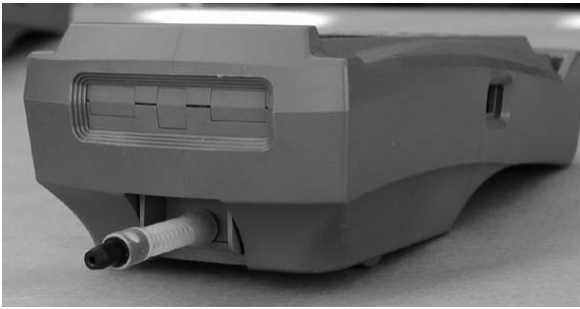
Operating Instructions:

A. Powering up the 707

1. Turn the unit on in an **uncontaminated environment** (clean air away from the system in question) by holding down the red ON/OFF switch for 2 seconds.
2. The 707 will power up and go through a 30 second self test to ensure the unit is operating properly.
3. When the display shows 0 ppm, you are ready to measure CO.

B. Attaching Mini Pump Protection Filter

1. Obtain the pump filter assembly and push the open end of the tube onto the inlet at the top of the 707 (refer to figure below).



C. Measuring CO in Ambient Air

1. Complete steps A and B above.
2. Place the 707 in any area to measure CO.
3. The 707 has an alarm that will sound at 500 ppm (factory set) for your safety.

NOTE: The instrument has an auto shut off after 10 minutes should no keys have been pressed for this period and as mentioned above that the CO is below 15ppm. Should the CO be above 15ppm then the 10 minute auto shut off countdown will not begin till the CO has gone below 15ppm.

D. Measuring CO in Flue Gas

1. Complete steps A and B above.
2. Attach the hose from the flue probe to the Mini Pump Protection Filter.

3. Place the shaft of the flue probe into the flue.
4. 707 will measure the CO. Empty water/air filter as needed.
5. The 707 has an alarm that will sound at 500 ppm (factory set) for your safety.

NOTE: The instrument has an auto shut off after 10 minutes should no keys have been pressed for this period and as mentioned above that the CO is below 15ppm. Should the CO be above 15ppm then the 10 minute auto shut off countdown will not begin till the CO has gone below 15ppm.

E. Activating the Backlight

1. Follow the procedure in “A” above.
2. Press and hold down the Func button for 2 seconds. The back light will come on and the icon will appear on the LCD.
3. Light will automatically turn off after 20 seconds to preserve battery life.

F. Saving your Data

1. Once you have obtained a reading and want to save it, press the Store button once.
2. The display will show “Addr SA” and a number from 0 to 9 will flash.
3. Using the up and down arrows, select the desired location to save the readings.
4. Press the Scroll/Enter key once. The 707 will store the readings and return to the normal screen.

G. Recalling your Saved Data

1. Press the Recall button once.
2. The display will show “Addr SA” and a number from 0 to 9 will flash.
3. Using the up and down arrows, select the desired location to save the readings.
4. Press the Scroll/Enter key once. The 707 will display the date and time screen showing when that reading was stored.
5. Use the up and down arrows to scroll through the CO and Peak readings that were saved.

H. Printing Stored Data (requires optional A740 IR printer)

1. Press the Print button once.
2. The display will show “Addr SA” and a number from 0 to 9 will flash.
3. Using the up and down arrows, select the desired location to print the readings.
4. Turn on the IR printer and align it with the IR port on the 707.
5. Press the Scroll/Enter key once. The 707 will display “out” and the printer will start printing the data.
6. Once the data output is finished, the display on the 707 will read “END” with yes flashing. Press Scroll/Enter to exit or use the up and down arrows to select another address to print.

1. Setting the Date and Time

1. Follow the procedure in “A” above.
2. Press the Func button once. The current time, date and year are displayed. Please note that the time is on a 24 hour clock and the date is shown as DD/MM.
3. To change a value, press the Scroll/Enter button once. The minutes for the time will begin to flash.
4. Using the up or down arrow, set the display to the correct value.
5. Repeat steps 3 and 4 for hours, month, day and year until all items are set and there is nothing flashing on the LCD.
6. Press the Func button to return to CO measurement.

Battery Replacement

1. Remove the battery compartment cover from the bottom of the handle by sliding the door away from the front side of the instrument.
2. Remove the batteries and replace by sliding the negative (-) end of the batteries in first.
3. Replace the battery cover by sliding the door into the slots provided in the handle and allow it to snap into place.
4. For best performance use quality alkaline batteries.

Warranty and repair/exchange policy

Your TPI 720b is warranted to be free from defects in materials and workmanship for a period of one year after purchase (excluding sensor, calibration and batteries). If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at our option. This warranty covers normal use and does not cover damage which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. A purchase receipt or other proof of original date of purchase will be required before warranty performance will be rendered. Instruments out of warranty will be repaired for a service charge. Return the unit postpaid and insured to:

Test Products International, Inc.
9615 SW Allen Blvd.
Beaverton OR 97005
(503) 520 9197

This warranty gives you specific legal rights and you may also have other right which vary from state to state.



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707 Instruction Manual
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